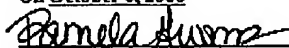


**RECEIVED
CENTRAL FAX CENTER****OCT 06 2006****DOCKET NO.: ISIS-5320
USSN: 10/699,240****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****Applicants: Phillip Dan Cook****Serial No.: 10/699,240****Group Art Unit: 1637****Filed: October 31, 2003****Examiner: Jezia Riley****Title: Process for the Synthesis of 2'-O-Substituted Pyrimidines and Oligomeric
Compounds Therefrom**

I certify that this correspondence is being deposited with the
U.S. Postal Service as First Class mail in an envelope
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Alexandria, VA 22313-1450.

On October 6, 2006


Pamela Green

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

RESPONSE AND AMENDMENT

This paper is in response to the Office Action mailed June 21, 2006, setting a three month period for response. Included herewith are a Petition for Extension of Time under 37 CFR § 1.136(a) for one month from September 21, 2006 to October 21, 2006, and the fee required under 37 CFR § 1.17(a)(1) :

- ☐ Amendments to the Specification begin on page this paper.
- ☒ Amendments to the Claims are reflected in the listing of the claims which begins on page 2 of this paper.
- ☐ Amendments to the Drawings begin on page of this paper and include an attached replacement sheet.
- ☒ Remarks/Arguments begin on page 4 of this paper.

10/10/2006 MBINAS 00000025 500252 10699240

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PTO/SB/17 (12-04)

Approved for use through 07/31/2006, OMB 0851-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2006 (H.R. 4618).

FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$360)

Complete if Known

Application Number 10/699,240
Filing Date October 31, 2003
First Named Inventor Phillip Dan Cook
Examiner Name Jezia Riley
Art Unit 1637
Attorney Docket No. ISIS-5320

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):
☒ Deposit Account Deposit Account Number: 50-0252 Deposit Account Name: Isis Pharmaceuticals, Inc.
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims: Extra Claims: Fee (\$): Fee Paid (\$): Multiple Dependent Claims:
- 20 or HP = x = Fee (\$): 360 Fee Paid (\$): 360
HP = highest number of total claims paid for, if greater than 20
Indep. Claims: Extra Claims: Fee (\$): Fee Paid (\$):
- 3 or HP = x =
HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets: Extra Sheets: Number of each additional 50 or fraction thereof: Fee (\$): Fee Paid (\$):
- 100 = / 50 = (round up to a whole number) x =

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other:

SUBMITTED BY

Signature: Registration No. 52,887 Telephone 760 603-4631
Name (Print/Type) Jason D. Perrone, J.D. Date 10/6/2006

This collection of information is required by 37 CFR 1.138. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.